

## WHAT IS CLAIMED IS:

1 1. A reproducing apparatus comprising:  
2 a reading section which reads data recorded on  
3 a recording medium;  
4 a storing section which stores the data read  
5 by said reading section;  
6 a reproducing section which reads out and  
7 reproduces the data stored in said storing section;  
8 a discal unit which is rotated by a driving  
9 section at a reference rotational speed and in a  
10 reference rotational direction;  
11 an operation discal unit which is mounted on  
12 said discal unit to be rotatable with said discal  
13 unit, and is configured in such a manner as being  
14 rotatable in a rotational direction and at a  
15 rotational speed as desired by a user, so that said  
16 reproducing section performs a desired data  
17 reproduction;  
18 a sensor section which outputs a pulse signal  
19 in accordance with the rotational direction and the  
20 rotational speed of said operation discal unit; and  
21 a control section which determines the  
22 rotational direction and rotational speed of said  
23 operation discal unit according to the pulse signal  
24 from said sensor section, and when determines that

25 said operation discal unit starts rotating in said  
26 reference direction after pausing for at least a  
27 predetermined period of time, said control section  
28 controls said driving section to rotate said discal  
29 unit at a speed higher than said reference  
30 rotational speed for a predetermined period of time.

1 2. The reproducing apparatus according to claim 1,  
2 wherein,

3 said control section gives a control to apply  
4 to said driving section a pulse voltage of a  
5 predetermined voltage value, so that said discal  
6 unit is rotated at a higher speed.

1 3. An operating apparatus for reproduction  
2 comprising:

3 a discal unit which is rotated by a driving  
4 section at a reference rotational speed and in a  
5 reference rotational direction;

6 an operation discal unit which is mounted on  
7 said discal unit to be rotatable with said discal  
8 unit, and is configured in such a manner as being  
9 rotatable in a rotational direction and at a  
10 rotational speed as desired by a user, so that a data  
11 reproducing apparatus connected externally  
12 performs a desired data reproduction;

13           a sensor section which outputs a pulse signal  
14 in accordance with the rotational direction and the  
15 rotational speed of said operation discal unit; and  
16           a control section which determines the  
17 rotational direction and the rotational speed of  
18 said operation discal unit based on the pulse signal  
19 from said sensor section, and when determines that  
20 said operation discal unit starts rotating in said  
21 reference rotational direction after pausing for at  
22 least a predefined period of time, said control  
23 section controls said driving section to rotate said  
24 discal unit at a speed higher than said reference  
25 rotational speed for a predetermined period of time.

1   4. The operating apparatus for reproduction according  
2 to claim 3, wherein,

3           said control section gives a control to apply to  
4 said driving section a pulse voltage of a predetermined  
5 voltage value, so that said discal unit is rotated at  
6 a higher speed.

1   5. A reproducing method in a reproducing apparatus  
2 having a reading section which reads data recorded  
3 on a recording medium, a storing section which  
4 stores the data read by said reading section, a

5 reproducing section which reads out and reproduces  
6 the data stored in said storing section, and a discal  
7 unit which is rotated by a driving section at a  
8 reference rotational speed and in a reference  
9 rotational direction, comprising:

10       receiving an instruction from a user regarding  
11 a reproducing sequence direction and a reproducing  
12 speed of the data, via an operation discal unit,  
13 which is mounted on said discal unit to be rotatable  
14 with said discal unit, and is configured in such a  
15 manner as being rotatable in a rotational direction  
16 at a rotational speed as desired by the user;

17       receiving a pulse signal outputted according  
18 to the rotational direction and the rotational speed  
19 of said operation discal unit which rotates  
20 according to the received instruction;

21       determining the rotational direction and  
22 rotational speed of said operation discal unit  
23 according to said received pulse signal; and

24       controlling a reproduction in said reproducing  
25 section in accordance with said rotational  
26 direction and rotational speed thus determined, and  
27 when determines that said operation discal unit  
28 starts rotating in said reference direction after  
29 pausing for at least a predefined period of time,  
30 controlling said driving section to rotate said

31 discal unit at a speed higher than said reference  
32 rotational speed for a predetermined period of time.

1 6. The reproducing method according to claim 5,  
2 wherein,  
3       when determined that said operation discal  
4 unit starts rotating in said reference rotational  
5 direction after pausing for at least a predetermined  
6 period of time, said controlling includes applying  
7 to said driving section a pulse voltage of a  
8 predetermined voltage value, so that said discal  
9 unit is rotated at a high speed.